

IN THE CLAIMS

Please amend the claims as hereafter provided:

1. (Currently amended) A compression process for adaptively compressing an image and storing the compressed image on a storage medium of a computer system, ~~wherein a plurality of compression techniques are utilized to compress the image, comprising:~~

~~segmenting the image into a plurality of n-segments;~~

~~analyzing a first segment of the plurality of segments to determine a first optimal compression technique for the first segment;~~

~~applying the first compression technique to the first segment whereby the first segment is transformed into a storable form;~~

~~creating a tag for the compressed first segment, the tag including a decompression instruction particular to the compression technique and information identifying the beginning and outline of the first segment;~~

~~storing the tag and the compressed first segment in the a storage medium;~~

~~analyzing a subsequent segment in the plurality of segments to determine a second optimal compression for the subsequent segment;~~

~~applying the second compression technique to the subsequent segment;~~

~~storing the compressed subsequent segment in the storage medium; and~~

~~repeating the steps of analyzing, applying, creating and storing for each subsequent segment in of the plurality of segments, wherein each of the nth plurality of segments segment is compressed by an nth a compression technique that is optimal to that particular segment.~~

2. (Currently amended) A compression process as claimed in claim 1, ~~wherein the first two or more of the compression techniques and the second compression technique are different from each other.~~

3. (Currently amended) A compression process as claimed in claim 1, ~~wherein at least two different compression techniques are applied to the plurality of segments further comprising, for any segment of the plurality of segments, the step of further dividing the segment~~

into sub-segments and repeating the steps of analyzing, applying, creating and storing for each of the sub-segments.

4. (Currently amended) A compression process as claimed in claim 1, wherein storing the compressed segment comprised writing a data file comprising data description members and display instruction membersfurther comprising encoding the plurality of compressed images to form a file of compressed encoded image data in transmittable form and storing the file in the storage medium.

5. (Currently amended) A compression process as claimed in claim 4, wherein for a plurality of images, repeat the step of segmenting for each of the images and for each of its resulting segments repeat the steps of analyzing, applying, creating and storingstoring the compressed segment comprises writing a data file further comprising memory management.

6. (Currently amended) A compression process as claimed in claim [[4]]1, wherein storing the compressed segment comprises writing a data file selected with information including one or more from the group consisting of memory management, data description members and display instruction members.

7. (Currently amended) A compression process for adaptively compressing an image stream having a plurality of images and storing the compressed images on a storage medium of a computer system, wherein a plurality of compression techniques are utilized to compress each image, comprising:

for each image of the plurality of images, segmenting a first the image into a plurality of n-segments, and for each segment of the plurality of segments associated with that image performing the steps of:

analyzing a first the segment of the plurality of segments to determine a suitable first optimal compression technique that is optimal for the first the segment;

applying the first suitable compression technique to the first segment;

creating a tag for the compressed segment, the tag including a decompression instruction particular to the suitable compression technique and information identifying the beginning and outline of the first segment; and

storing the tag and the compressed first segment in the storage medium; analyzing a subsequent segment in the plurality of segments to determine a second optimal compression for the subsequent segment;

applying the compression technique to the subsequent segment;
storing the compressed subsequent segment in the storage medium;
repeating the steps of analyzing, applying and storing for each segment in the plurality of segments;

segmenting each subsequent image into a plurality of segments; and repeating the steps of analyzing, applying and storing for each segment in each subsequent image.

8. (Currently amended) A compression process as claimed in claim 17, wherein two or more of the first compression techniques and the second compression technique are different from each other.

9. (Currently amended) A compression process as claimed in claim 17, wherein, for each of the images, the segments are either overlapping or arbitrarily shaped regions of the image at least two different compression techniques are applied to the plurality of segments.

10. (Currently amended) a compression process as claimed in claim 17, wherein storing the compressed segment comprises writing a data file comprising information including one or more of a memory manager, a data description members and a display instruction members.

11. (Withdrawn) A file structure for storing compressed data in a data file, wherein the data file can be displayed on a playback device having a predefined amount of memory, comprising:

A memory management command in a first position in the data file, wherein the memory management command instructs the playback device to perform a predefined operation;

a set of data description members; and
a set of display instructions, wherein the display instructions include a starting data point, and a size parameters of the data.

12. (Withdrawn) A file structure as claimed in claim 11, wherein the data description members comprise:

- an image identifier;
- an image shape identifier; and
- identifier of the number of fill styles, wherein the fill styles define the type of data in the segment;
- a data draw command, wherein the data draw command instructs the playback device to display the data; and
- a first affine transform, wherein the transform defines scaling, rotating or skewing of the data contained within the segment.

13. (Withdrawn) A file structure as claimed in claim 12, wherein the fill styles are selected from a group consisting of solid color data, gradient data, bitmap data, or pixel data.

14. (Withdrawn) A file structure as claimed in claim 13, further comprising a second affine transform, wherein the transform defines scaling, rotating or skewing of the segment.